Weather:  Sun Temp.: ~80°F
Contractor(s): Holmberg, Queen City Roofing  Foreman: Anton Woody, Rich Kerns  Workers On-Site: ~5/QCR
Contact w/: Keith Skore (City of Lynnwood), Anton Woody (General Contractor, Holmberg), Rich Kerns (Foreman, QCR)
Location(s) of Work: Natatorium roof.
Materials: Hot Stuff Type IV asphalt, John Manville GlasPly IV plysheet, Karnak 108 primer.

Project Conditions Photo:

Photo of the east elevation of the north elevation of the Lynnwood Recreation Center building taken facing southeast.

Foreword:
At the request of Keith Skore (Project Manager, City of Lynnwood) this writer was onsite to review the demolition of the Natatorium Roof as performed by Queen City Roofing. A hand-written copy of Field Notes #02 was reviewed with Keith Skore (City of Lynnwood) and Anton Woody (GC, Holmberg) and is left in the onsite job trailer for dissemination. The following items were observed, noted and/or discussed regarding the roof.
Roof System Description:

Roof Replacement Assembly:

<table>
<thead>
<tr>
<th>Layer</th>
<th>Specified Products</th>
</tr>
</thead>
<tbody>
<tr>
<td>(E) Roof Structure</td>
<td>(E) metal deck, (E) concrete deck.</td>
</tr>
<tr>
<td>Vapor Retarder Layer</td>
<td>2-Ply John Mansville Type IV set in Type IV Hot Asphalt, Glaze coat of Type IV Hot Asphalt</td>
</tr>
<tr>
<td>Insulation</td>
<td>Rigid Polyiso Insulation and Tapered Polyiso Insulation ¼;” per foot.</td>
</tr>
<tr>
<td>Coverboard</td>
<td>DensDeck Prime Coverboard mechanically fastened.</td>
</tr>
<tr>
<td>Adhesive</td>
<td>UltraPly TPO bonding Adhesive</td>
</tr>
<tr>
<td>TPO Roofing</td>
<td>Firestone UltraPly TPO, (fully adhered)</td>
</tr>
</tbody>
</table>

Running Punch List/Action Items:
(Items will be removed and updated as addressed)

Observations:

2.1 Holmberg is demolishing the concrete curb at the east side of the Natatorium Roof.

Overview of the Natatorium Roof taken facing south.

2.1a A grinder is utilized to remove abandoned pipe penetrations. Recommend that all protrusions be removed to be flush with or below the surface of the concrete deck and in filled to provide a substrate.
Continued from Item 2.1a on the previous page.

2.1b The re-bar that is exposed within the curb is embedded in the concrete deck. This rebar is ground down and removed. Debris is removed from the roof using buckets.

2.1c Conditions below are a general depiction of the condition of the concrete substrate after the removal of the concrete curb. The cold joint in the concrete has left voids and high spots. Per conversation with Anton Woody (GC, Holmberg) these areas will be either chipped free with a 3-inch spade bit and roto-hammer or infilled with self-leveling grout to provide a smooth surface free of deformities prior to the installation of the new vapor retarder layer.
2.2 Per Wetherholt recommendation, the existence of a vapor retarder layer should be verified at the adjacent roof located south of the Natatorium Roof. The new vapor retarder should tie into the weather resistive barrier and encapsulate the new insulation.

![Overview of the separator curb at the south end of the Natatorium Roof taken facing south.](image1)

2.3 The photograph below is taken at this writer’s departure from the site and depicts progress of the demolition of the concrete curb to the east.

![Overview of the Natatorium Roof taken facing south.](image2)
New Problems/Solutions:

2.4 Per Wetherholt recommendation, the existence of a vapor retarder layer should be verified at the adjacent roof located south of the Natatorium Roof. If the adjacent roof was installed without a vapor barrier there is a possibility that water vapor may migrate into the new roof assembly and damage the components. Per conversation with Anton Woody (GC, Holmberg) this is out of the scope of his contract but the construction team is aware of this issue.

Incomplete/Unaddressed/Problematic Issues from Previous Reports:
(Items will be updated and removed as addressed) Items are site specific and will be updated accordingly.

1.11 Recommended the installation of a night seal every night. Per conversation with Rich Kerns, (Foreman, QCR) the roof should be allowed to dry prior to the installation of a new vapor retarder layer.  
**Update FR#02 – 09/12/2013: Item is unresolved**
1.12 At the concrete curb to the east it is recommend that the substrate be corrected prior to the installation of the new vapor retarder layer.

**Update FR#02 – 09/12/2013:** Item is unresolved. Item is discussed with Anton Woody (GC, Holmberg) and per conversation will be repaired by removing high spots and infilling voids with self-leveling grout.
CASC Roof Progress Plan / Locator Map:
*Please note that areas or locations denoted are approximate.

LEGEND:
- Problem Item
- Installed through Vapor Retarder
- Installed through TPO Membrane

Recommend verifying the presence of a vapor retarder layer over the deck south of Natatorium Roof.